

Archives

P.S.
R0
610
1954-
1955
AR

LIBRARY
ROYAL ONTARIO MUSEUM
SCIENCE'S DIVISION


ROYAL ONTARIO MUSEUM

ANNUAL REPORT

NUMBER 6

1954-55

100 QUEEN'S PARK, TORONTO 5, ONTARIO



Digitized by the Internet Archive
in 2019 with funding from
Royal Ontario Museum

<https://archive.org/details/annualrepor06roya>

Report of the Director of the Royal Ontario Museum of Archaeology

The South American Gallery is nearing the end of a much-needed reorganization. Other gallery work has been on a smaller scale; the most striking evidence of it is a new exhibit of Greek and Etruscan gold jewellery in one of the Greek galleries.

Special exhibitions of Museum material have been in abeyance throughout this year. In October, 1954, the Museum showed the large "Design in Scandinavia" touring exhibition; it is at present showing "Designer-Craftsmen, U.S.A." and "Canadian Pottery of 1955." The first two of these are in line with the Museum's policy of enabling the Canadian public to see what is being done in the field of design in other countries, with a view ultimately to an exhibition of modern Canadian design. The "Object of the Month" policy was continued for another year.

The study-storage room for the Near Eastern Department referred to in the last Report is now in use. That made for the Greek and Roman Department will shortly be used.

Loans this year are most notably to the Golden Jubilee celebrations planned by the Province of Saskatchewan. Works by Paul Kane painted in Saskatchewan are being lent. Three departments are in process of arranging exchanges of collections with other museums. As shortages of genuine supply grow this is likely to be an increasing activity.

The Personnel Division of the University carried out a position analysis with respect to the members of the administrative staff—the staff as a whole except the Director and Curators. The first step towards bringing Museum salaries upwards into line with corresponding positions in the University is to take place in July, 1955.

Mrs. Spence left the staff of the Near Eastern Department, and has been temporarily replaced by Mr. John Ruch. Miss Caldwell left the Ethnology Department in August, 1954, and has been temporarily replaced by Mrs. R. Vanderburg and Miss G. Baker, both working half time. There were changes in the Textile Department following Miss Clark's resignation on her marriage, and Mrs. Brett, the Curator, is now on full time; Miss Mary Horan replaced Miss Hahn as Assistant.

Lectures have been given by many members of the staff, especially in the Greek and Roman and Textile Departments. In the former case these have been mainly to University students, in the latter mainly to outside groups.

Work on the Ontario Textile project continued with field trips in the eastern part of the Province. A coherent picture of the whole development is now beginning to emerge, but there is much work still to be done. Excavation was not possible during 1954, but it is planned that the Museum and the Department of Anthropology jointly should continue the work on the so-called "Serpent Mounds" at Rice Lake during 1955.

The Sigmund Samuel Canadiana Collection experienced a successful year with an increase of the number of visitors to the gallery and many important acquisitions.

At the Museum Board's request an analysis of the gaps in the present Museum collection was carried out. Concrete efforts towards filling them are being planned.

Important acquisitions include oil and watercolour paintings, maps, etc., the gift of Dr. Sigmund Samuel; a group of six Chinese bronze vessels, and two Egyptian Late Kingdom reliefs, the gift of the Reuben Wells Leonard Estate; a large group of Chinese lacquers, including many Imperial pieces, the gift of Major J. E. Hahn; a Schiaparelli dress, 1938, the gift of Mrs. O. D. Vaughan; examples of Chinese furniture of the seventeenth and eighteenth centuries, the gift of Mrs. E. J. Stone. Purchases included a Chinese painted silk, taken from the same design as an embroidery already in the collection; an important silver bowl of the Tiahuanaco culture; a fragment of repoussé gold of the eighth century B.C. from Ziwiye, Persia.

GERARD BRETT

PUBLICATIONS

- FERNALD, H. E. "Buddhist Stone Sculpture from T'ien-lung Shan, Shansi, 8th Century A.D." (*Bulletin of the Royal Ontario Museum of Archaeology*, no. 22, Sept., 1954, pp. 1-3).
- "Chinese Treasures added to the Collection: Bequest Brings Priceless Early Bronzes to Ontario Museum" (*Saturday Night*, vol. 70, no. 10, Dec. 11, 1954, p. 5).
- KIDD, K. E. "Fashions in Tobacco Pipes among the Iroquois Indians of Ontario" (*Bulletin of the Royal Ontario Museum of Archaeology*, no. 22, Sept., 1954, pp. 15-21).
- "A Note on the Palaeopathology of Ontario" (*American Journal of Physical Anthropology*, vol. 12, n.s., no. 4, Dec., 1954, p. 6).
- "Paul Kane, Painter of Indians" (*Bulletin of the Royal Ontario Museum of Archaeology*, no. 23, May, 1955, pp. 9-13).
- "Trade Goods Research Techniques" (*American Antiquity*, vol. 20, no. 1, July, 1954, pp. 1-8).
- "A Woodland Site near Chatham, Ontario" (*Transactions of the Royal Canadian Institute*, vol. 30, pt. II, 1954, pp. 141-78).
- NEEDLER, W. "Sculpture from the Tomb of Metjetjy, Pyramid Age" (*Bulletin of the Royal Ontario Museum of Archaeology*, no. 22, Sept., 1954, pp. 5-14).
- Review, *Phoenix*, vol. 8, no. 4, Winter, 1954, pp. 166-7.
- SPENCE, M. M. and NEEDLER, W. "An Iron Dagger from Luristan" (*Bulletin of the Royal Ontario Museum of Archaeology*, no. 23, May, 1955, pp. 14-24).

Report of the Director of the Royal Ontario Museum of Geology and Mineralogy

The Director can report a year of very considerable progress and accomplishment in the fields of research, additions to collections, and display.

Most of the research was a continuation of the studies of craters suspected to be of meteoritic origin. The Director organized and led an eight-man expedition jointly sponsored by the Museum, the National Geographic Society (U.S.) and the United States Air Force to northern Labrador where a study was conducted on a crater-like lake located by him in 1953. The work of collating the data obtained is in progress. In addition, both the Director and the Curator of Geology carried out short trips for the purpose of obtaining specimens for the collections and displays.

Great changes have been made in our gallery display. On April 15 the first portions of our new permanent exhibits on geology were opened to the public. Modern methods of display have been used to depict geological processes and the change from cases full of neatly regimented specimens is very marked. Visitors, both

scientists and laymen, have been quick to voice their appreciation. This programme of rebuilding our geology exhibits has been in hand for approximately two years and is a continuing one, sponsored by the J. P. Bickell Foundation and carried out by our own staff under the direction of the Curator of Geology, Mr. Walter M. Tovell.

We have continued our policy of accepting temporary exhibitions which deal with subjects related to our field. Four exhibitions were offered during the year. "The Story of Oil," sponsored by Imperial Oil Limited, finished its year of exhibition and was replaced by "The Platinum Metals" sponsored by International Nickel of Canada. It will be of one year's duration also. In May, the Walker Mineralogical Club accepted our offer of space and held its annual one-month exhibition of minerals and gemstones in our galleries. In June this exhibition was replaced by one sponsored by National Lead Company of the United States and Canadian Titanium Pigments Limited on the metal titanium and its products. This exhibition will be of six months' duration.

The Museum was responsible for two of the Open Nights when the general public had access to the building. On the first evening, the Director spoke on the Museum's expedition to northern Labrador; and on the second, gallery talks on the new geology exhibits and the platinum metals were given by Mr. Tovell and the Director, respectively. Members of the staff delivered a number of lectures in Canada and the United States on subjects related to our work.

Several very fine mineral specimens have been presented to the Museum or obtained by exchange, purchase or collection.

V. BEN MEEN

Report of the Director of the Royal Ontario Museum of Zoology and Palaeontology

On March 28th, the Honourable James Sinclair, P.C., M.P., Minister of Fisheries, Ottawa, officially opened our new Gallery of Canadian Fishes. This co-operative effort between the federal Department of Fisheries and our Museum was first suggested in June, 1950—almost five years prior to its final opening. The greater part of the first two years was spent in preparing the gallery for the installation of the new exhibit, drawing up plans for cases and making necessary arrangements for obtaining ship models and specimens of fish. The former exhibit, which the new one replaced, consisted of a display of fish models mounted on large pieces of mahogany. It was not only an unattractive exhibit but, by and large, it was not very informative. I would emphasize, however, that the models of fishes in the old exhibit prepared by Mr. E. B. S. Logier and Mr. T. B. Kurata were excellent in every detail and hence most of them were incorporated into the new exhibit, along with more than a hundred new casts. Much of the success of the present exhibit is due to the previous skilled workmanship of Messrs. Logier and Kurata. The oak cases of the new exhibit were especially constructed by the Fairbairn Studios. In these cases are displayed, in a most artistic manner, more than a hundred and fifty species of freshwater and marine fishes, in addition to ten scale models of fishing vessels of various types.

The new gallery of fishes will not only be of interest to the general public, but it will also serve as a valuable source of information about Canadian fishes for students of public schools, private schools and universities.

In the report for last year reference was made to an expedition to the Badlands area of Alberta to obtain material for research in Vertebrate Palaeontology. I am

indeed pleased to report that this expedition was most successful. In addition to many fragments and complete bones, four complete skulls, representing four species of duck-billed dinosaurs (two of them representing species new to science) were obtained, and also a crocodile skull (new to science), and many fine skeletons of extinct turtles. The members of this expedition, Mr. Levi Sternberg, Mr. Gordon Edmund and Mr. R. R. Hornell, are to be congratulated on the success of this investigation.

Dr. W. B. Scott reports that the entire research collection of fishes has been rearranged on the new storage shelves and all specimens properly labelled for use in further research work. This collection will form the basis for most of the systematic research and distributional studies of fishes carried out by ichthyologists in Canada. It also forms valuable reference material for workers in foreign institutions.

One of the most important functions of our Museum is research in the fields of systematic zoology and zoogeography, in which I would also place systematic studies of extinct forms (palaeontology). Our contributions to these fields of research are known throughout the world, and many institutions now rely upon us for information concerning the animal life of Canada, with particular reference to Ontario. Last year I reported that Mr. L. L. Snyder, Curator of the Division of Ornithology, was working on his manuscript of the birds of the Canadian Arctic. I am pleased to report that this work has been completed and is now in the process of being published by the University Press.

The book entitled *North American Moose*, written by Dr. R. L. Peterson, Curator of the Division of Mammalogy, of which mention was made last year, was published and is receiving most favourable comments from many branches of government departments and academic institutions. Mr. E. B. S. Logier, Associate Curator of Ichthyology and Herpetology, completed his manuscript of *A Checklist of the Amphibians and Reptiles of Canada and Alaska*.

The above publications may be considered major works. We consider them of primary importance and one of our most outstanding contributions. They present to the lay public and the scientist accurate information which has been accumulated by our Museum over the past many years. The Museum finances the publication of these works through the University Press, this financial assistance having been obtained from many sources but particularly from the Carling Conservation Club, the Howard Smith Paper Mills Limited and the Toronto *Star Weekly*.

In addition to our major works, the members of our scientific staff published a number of scientific papers in various journals, as well as in our Museum's Contribution series. Such short papers are the bricks used by zoologists and palaeontologists the world over for constructing their major works on the fauna, past and present, of North America.

Although our Museum has been actively engaged in supplying the urgent need for reference books dealing with the fauna of Canada, much has still to be done. One rather serious omission is a book dealing with the mammals of Canada. In order to satisfy this growing need, Dr. R. L. Peterson has commenced working on a book that will present the important facts about the various species of mammals to be found in eastern Canada. This book will be fully illustrated by Mr. T. M. Shortt, Chief of our Division of Art and Exhibits.

Of the various important phases of research now being carried on by members of our curatorial staff, I should like to draw attention to the following: Dr. R. L. Peterson is making a systematic study of the genus *Phenacomys*, as well as a study of the genus *Thomomys* of western Canada. Having completed his study on the birds of the Canadian Arctic, Mr. L. L. Snyder has now turned his attention to a

detailed study of the bird fauna of Ontario, the facts gleaned from this to be incorporated into a book entitled, "*A Manual of the Birds of Ontario*." Dr. W. B. Scott is extending his studies of the various species of fishes to include Canada east of the Rocky Mountains. It is our hope that the information obtained by this study will be incorporated into a new edition of Dr. Scott's book, *Freshwater Fishes of Eastern Canada*. Mr. E. B. S. Logier, having completed his checklist, has commenced a detailed study of the reptiles of eastern Canada as a companion volume to his previous book on the amphibians of the same area. Dr. E. M. Walker commenced his study of the Anisoptera of Canada and Alaska which will be published as a companion volume to his previously published work on the Zygoptera. Mr. Glenn Wiggins has devoted his research time to a comprehensive study of the Phryganeidae of the world. Mr. Gordon Edmund has been making a detailed study of the tooth replacement in reptiles with special reference to dinosaurs. The research work being carried on by Dr. M. Fritz, Curator of Invertebrate Palaeontology, is outlined under the Department of Geological Sciences.

In addition to carrying out research projects, attending to the many routine tasks associated with the care and maintenance of large research collections, answering numerous questions presented by the public and acting as technical advisers in gallery displays, the Curators presented graduate and undergraduate courses to the students of the University. Dr. Peterson presented the mammal section, and Mr. Snyder the bird section, of Course 25 to the students in second-year honour Biology. Dr. Peterson was in charge of the graduate work of Mr. C. S. Churcher who is proceeding to the degree of Doctor of Philosophy. Dr. Scott presented a graduate course in Ichthyology. Mr. G. Edmund presented an undergraduate course in Vertebrate Palaeontology to the students in the Department of Geological Sciences. In addition to presenting such listed courses, the Curators also took part in graduate examinations and served on graduate committees.

The members of our staff are frequently called upon to give public lectures to various technical and non-technical groups. During this past year thirty-six such lectures were delivered, including radio and television addresses.

Dr. Peterson attended the annual meeting of the Society of Mammalogists of which he is the recording secretary, held in Los Angeles, California. Dr. Peterson also attended the meeting of the North American Wildlife Conference held at Montreal, where he served as discussion leader of the technical session on Big Game. Mr. Snyder attended the 72nd Stated Meeting of the American Ornithologists' Union at the University of Wisconsin where he took part in the business sessions. Dr. Scott was elected to the Board of Governors of the American Society of Ichthyologists and Herpetologists; he was appointed a member of the Campaign and Building Fund Committee of the Canadian Aquaria Society; he was also appointed to the Board of Directors of the Toronto Anglers and Hunters. Dr. Scott attended the meeting of the Canadian Committee for Freshwater Fishery Research held in Ottawa; the meetings of the Lake Erie Management Committee held at Niagara Falls; and the annual meeting of the American Society of Ichthyologists and Herpetologists held in San Francisco, California.

F. A. URQUHART

PUBLICATIONS

BAILLIE, J. L. "Bush Birds" (*Bush News*, vol. 4, no. 1, Dec., 1954, p. 6).

——— "Christmas Bird Census—1953, Toronto, Ont." (*Canadian Field-Naturalist*, vol. 68, no. 1, Jan.-March, 1955, pp. 22-3).

- "The Christmas Bird Count, 1953" (*Bulletin of the Federation of Ontario Naturalists*, no. 64, Spring, 1954, pp. 32-7).
- "Clifford Ernest Hope" (*Auk*, vol. 68, no. 1, July, 1954, p. 348).
- "Clifford Ernest Hope (1910-1953)"; in *Report of the Director for the year ended June 1954, Royal Ontario Museum of Zoology and Palaeontology*, 1954, pp. 5-10.
- "Fall Migration, Ontario—Western New York Region" (*Audubon Field Notes*, vol. 9, no. 1, Feb., 1955, pp. 22-4).
- "Fifty-fourth Christmas Bird Count, Toronto" (*ibid.*, vol. 8, no. 2, April, 1955, p. 55).
- "Kinglets, Vireos, Shrikes, Waxwings, Pipits and Starlings" (*Canadian Nature*, vol. 16, no. 4, Sept.-Oct., 1954, p. 120).
- "Nesting Season, Ontario—Western New York Region" (*Audubon Field Notes*, vol. 8, no. 5, Oct., 1954, pp. 342-4).
- "Shore Birds" (*Canadian Nature*, vol. 16, no. 3, May-June, 1954, p. 104).
- "Spring Birding Highlights along Lake Erie" (*Bulletin of the Federation of Ontario Naturalists*, no. 67, Winter, 1955, pp. 34, 38).
- "Spring Season, Ontario—Western New York Region" (*Audubon Field Notes*, vol. 8, no. 4, Aug., 1954, pp. 309-11).
- "Winter Season, Ontario—Western New York Region" (*Audubon Field Notes*, vol. 8, no. 3, June, 1954, pp. 248-50).
- Review, *Toronto Anglers and Hunters Association News Bulletin*, April, 1955, p. 4.
- PETERSON, R. L. *North American Moose*. Toronto: University of Toronto Press and Royal Ontario Museum of Zoology and Palaeontology. 1955. Pp. 280.
- Review, *Journal of Wildlife Management*, vol. 35, no. 2, May, 1954, pp. 271-2.
- SCOTT, W. B. "Occurrence of the Ninespine Stickleback, *Pungitius pungitius*, in Newfoundland, Canada" (*Copeia*, 1955, no. 1, Feb., p. 56).
- (with G. H. Lawler). "Notes on the Geographic Distribution and the Hosts of the Cestode Genus *Triaenophorus* in North America" (*Journal of the Fisheries Research Board of Canada*, vol. 11, no. 6, Nov., 1954, pp. 884-93).
- Review, *Copeia*, 1954, no. 3, July, pp. 241-2.
- SNYDER, L. L. "Another Hybrid *Junco hyemalis* x *Zonotrichia albicollis*" (*Auk*, vol. 71, no. 4, Oct., 1954, p. 471).
- Review, *Bulletin of the Federation of Ontario Naturalists*, no. 68, Spring, 1955, pp. 39-41.
- STERNBERG, L. "When Dinosaurs Ruled the Land" (*Canadian Nature*, vol. 17, no. 1, Jan.-Feb., 1955, pp. 12-20).
- WALKER, E. M. Review, *Canadian Entomologist*, vol. 87, no. 3, March, 1955, pp. 142-3.
- WIGGINS, G. B. *The Caddisfly Genus Beraea in North America (Trichoptera)*. Contributions of the Royal Ontario Museum of Zoology and Palaeontology, no. 39. Nov., 1954. Pp. 13.

Report of the Supervisor of the Division of Education, Royal Ontario Museum

"Precisely because they wear the warmth and colour of the senses, the arts are probably the strongest and deepest of all education forces." The above quotation from the 1945 report of the Harvard Committee on *General Education in a Free Society*, states very succinctly the reason for the existence of any museum education. At the Royal Ontario Museum, the Division of Education is responsible for introducing formal classes and organized groups at the elementary, secondary, and adult

levels, to the collections of the Museums of Archaeology, Geology and Mineralogy, and Zoology and Palaeontology. It is our hope that it is done in such a manner that the students feel strongly this "warmth and colour."

Toronto and North York school children visit the Museum on a regular schedule throughout the school year. More and more teachers are seeing the potentialities of our collections in relation to class projects. For example, a class from Annette Street School and one from Maurice Cody School recently invited two of the Museum teachers to witness the culmination of two successful projects in which we had assisted. The visual information which the Museum was able to give added appreciably to the "Story of Communication" and "Life in Japan" as the themes were developed by these two classes.

For the first time since the amalgamation of Metropolitan Toronto, three Boards of Education, other than the Toronto Board, have made grants of money to the Division of Education for special services.

A visit to the Museum is part of the visiting programme of many out-of-town schools. For a great number of children the day included a "first" train ride, a "first" subway or elevator ride, and the "first" visit to this institution. Museum teachers are not able to discover what impact the museum visit has made upon the minds of the children, therefore it is always heartening to receive letters from them. We hope that most of them feel as did one young student from near Belleville who wrote, "If we're ever fortunate enough to be able to go to Toronto again we'll certainly plan to come to the Museum."

Each year two teams of teachers travel to parts of the Province which are too distant for trips to Toronto. An exception to this was made last fall when Bruce and North Grey Counties were visited. As a result of the ten-day programme in the classes of that area, children from some *twenty* schools came this spring for the first time to the Museum. The second visiting programme took place during the winter months, and included some of the schools from Chapleau to the Manitoba border.

Twelve travelling cases of material from various sections of the Museum were circulated to the schools which were visited by Museum teachers during 1953-4, thus maintaining the customary two-year contact with the area.

In contrast to the formal type of instruction mentioned in the first part of this report, the Saturday Morning Club offers an informal programme for children from 8 to 14 years of age. In spite of the fact that Hurricane Hazel unfortunately made it impossible for some children from outside Toronto to be present on registration day we started with a capacity number, 150. One of the interesting features of the Club last year lay in the fact that the numbers of the two senior groups were maintained throughout the year. This may have been due to the more advanced programme which they helped to develop. One group studied the life and times of Shakespeare in some detail, producing a scene from *A Midsummer Night's Dream*. The other group, starting with the basic principles of sound, studied percussion and string musical instruments.

During the past year an innovation was tried in one of the Royal Ontario Museum Extension courses. "Know Your Museum—the Museum and Modern Man" was given at 6:30 P.M. in order to serve an audience which preferred to go to lectures early in the evening. Although twenty or more attended each lecture, it was felt that next year the hour should be changed back to the regular time for University Extension courses.

The Division of Education held its first "Open Night" on January 11, 1955, to acquaint the general public with the work of the Division. After Mr. Ellsworth Jaeger, Curator of Education at the Buffalo Museum of Science, spoke briefly on

“The Museum, an Essential Community Service,” the audience was invited to examine the displays of travelling cases and teaching materials or to join in lectures in the galleries given by the Museum teachers. It was most encouraging to the members of the staff to have present representatives from various educational groups, the University of Toronto, the Department of Education, Toronto Teachers’ College and local Boards of Education. For it is only through the support and co-operation of the inspectors of the Department of Education and the principals and teachers of the local schools that the Division of Education is able to carry on its work with the youth of the Province. We wish to express our sincere thanks to them as well as to the staffs of the various parts of the Museum itself whose pleasant co-operation is a key factor in any harmony and efficiency that may exist within the Division of Education.

ROYAL ONTARIO MUSEUM ATTENDANCE
July 1, 1954–June 30, 1955

	<i>No. of groups</i>	<i>No. of individuals</i>
A. <i>Using R.O.M. Galleries and Studies</i>		
1. General Public		218,015
2. School Classes		
(a) Toronto	747	24,847
(b) Province		
Museum	867	21,635
Teachers' trips	267	9,371
(c) R.O.M. Staff		
(d) Unconducted	226	5,236
	TOTAL	2,107 61,089
3. <i>Groups other than schools</i>		
(a) Ontario College of Art	440	7,814
(b) Extension	149	1,417
(c) R.O.M. Staff	61	1,065
(d) Unconducted	68	1,444
(e) University of Toronto	1,456	9,308
	TOTAL	2,174 21,048
B. <i>Using theatre and lecture rooms</i>		
1. University of Toronto	1,191	72,249
2. R.O.M. Sponsored	21	4,334
3. Un-sponsored	89	18,370
	TOTAL	1,301 94,953
C. <i>Using Canadiana Gallery, Archives Building</i>		11,041
SUMMARY		
General Public		218,015
School classes	2,107	61,089
Groups other than schools	2,174	21,048
Using Theatre and Lecture Rooms	1,301	94,953
Using Canadiana Gallery, Archives Building		11,041
	TOTAL	5,582 406,146

NORMA E. HEAKES

MUSEUM BOARD

Robert Fennell, Esq., Q.C., *Chairman*

Sigmund Samuel, Esq., LL.D., *1st Vice-Chairman*

Ronald Allen, Esq., PH.D.

Professor M. B. Baker

Dr. Samuel Beatty

W. H. Clarke, Esq.

Maj. James E. Hahn

R. A. Laidlaw, Esq., LL.D.

Beverley Matthews, Esq., Q.C.

Colonel W. E. Phillips

Sidney E. Smith, Esq., Q.C., M.A., LL.D.

Mrs. O. D. Vaughan

COMMITTEE OF DIRECTORS

Gerard Brett, M.C., M.A., *Director of Archaeology*

T. F. McIlwraith, M.A., F.R.S.C., *Assoc. Director of Archaeology*

V. B. Meen, M.A., PH.D., *Director of Geology and Mineralogy*

F. A. Urquhart, M.A., PH.D., *Director of Zoology and Palaeontology*

Miss M. A. Fritz, M.A., PH.D., F.R.S.C., *Assoc. Director of Zoology and Palaeontology*

L. L. Snyder, Esq., *Assoc. Director of Zoology and Palaeontology*

Miss Norma Heakes, B.A., *Supervisor, Division of Education*

Mrs. Helen Marriott, *Secretary to the Museum Board and the Committee of Directors*

